

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P935083

Luminaire Tested: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

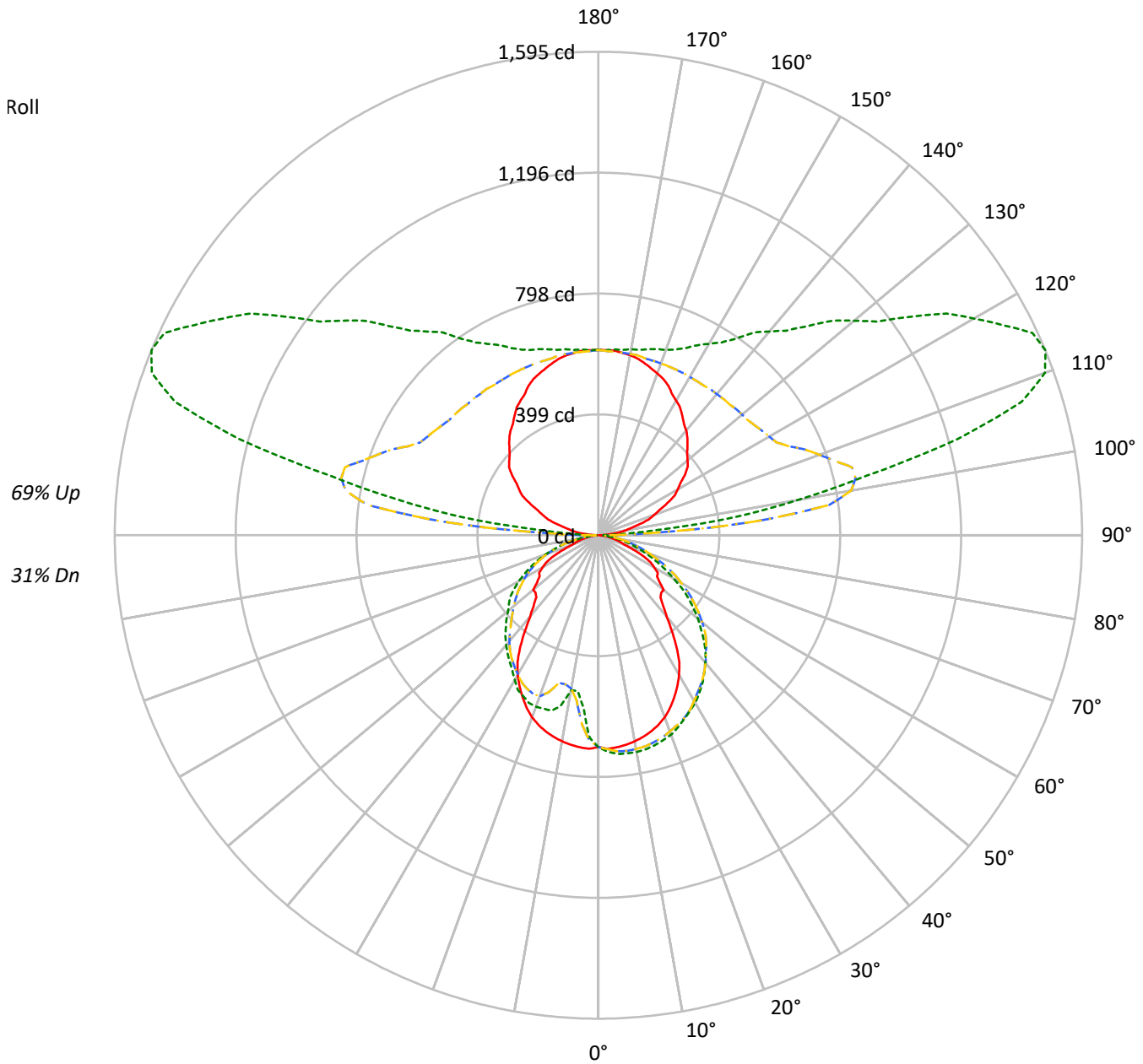
Test Method: LM-79-2019  
Report Number: P935083  
REPORT IS A COMBINATION OF REPORTS P933738 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5776.0 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 41.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P935083  
CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6526	6547	6526	5148
10°	6477	6449	6477	4611
15°	6398	6310	6398	5269
20°	6257	6144	6257	5280
25°	5976	5903	5976	5168
30°	5616	5702	5616	4923
35°	4999	5448	4999	4653
40°	4157	5150	4157	4448
45°	3708	4801	3708	4214
50°	3931	4384	3931	3978
55°	3686	3935	3686	3843
60°	3789	3342	3789	3519
65°	3418	2763	3418	3087
70°	2351	2203	2351	2590
75°	2036	1627	2036	1949
80°	1610	1078	1610	1172
85°	878	569	878	485

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5694 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.1	1.1
10°-20°	179.1	3.1
20°-30°	276.9	4.8
30°-40°	330.6	5.7
40°-50°	332.5	5.8
50°-60°	289.3	5.0
60°-70°	205.1	3.6
70°-80°	108.5	1.9
80°-90°	29.4	0.5
90°-100°	297.9	5.2
100°-110°	783.1	13.6
110°-120°	812.0	14.1
120°-130°	651.3	11.3
130°-140°	511.1	8.8
140°-150°	392.3	6.8
150°-160°	282.5	4.9
160°-170°	172.8	3.0
170°-180°	58.4	1.0
0°-30°	519.1	9.0
0°-40°	849.7	14.7
0°-60°	1471.6	25.5
0°-90°	1814.6	31.4
90°-120°	1893.0	32.8
90°-150°	3447.6	59.7
90°-180°	3961.0	68.6
0°-180°	5776.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	699	699	699	699	699	
5°	702	724	702	569	702	67
15°	670	718	670	599	670	189
25°	590	669	590	586	590	271
35°	449	597	449	510	449	278
45°	290	492	290	432	290	232
55°	236	363	236	354	236	217
65°	164	219	164	245	164	157
75°	62	104	62	124	62	65
85°	11	26	11	22	11	14
90°	4	16	4	16	4	4
95°	39	180	39	180	39	44
105°	141	1226	141	1226	141	150
115°	250	1579	250	1579	250	247
125°	349	1257	349	1257	349	309
135°	416	976	416	976	416	321
145°	482	792	482	792	482	302
155°	545	682	545	682	545	250
165°	588	635	588	635	588	166
175°	611	615	611	615	611	58
180°	611	611	611	611	611	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	704.9	704.9	708.8	710.2	710.2	708.2	706.3	708.2	714.2	716.1	715.4
5°	702.2	707.6	714.8	716.1	717.5	716.8	715.4	716.8	723.4	724.7	725.4
7.5°	697.0	706.9	716.1	718.1	720.1	718.1	717.5	718.8	725.4	726.7	726.7
10°	690.4	704.2	714.8	716.1	718.1	716.1	716.1	718.8	725.4	726.7	727.4
12.5°	681.1	700.3	710.2	711.5	714.2	713.5	712.9	715.4	722.1	723.4	723.4
15°	670.5	693.0	702.2	703.6	708.2	706.9	706.9	709.5	716.8	718.8	718.1
17.5°	656.0	683.8	694.3	696.3	699.7	699.0	699.7	702.2	708.8	710.2	710.9
20°	639.4	671.2	683.8	685.8	689.0	689.0	689.0	692.4	699.0	701.6	701.6
22.5°	616.9	658.0	671.2	672.6	676.5	676.5	677.8	682.4	688.3	689.0	689.0
25°	590.5	643.4	654.6	658.6	662.6	664.6	666.5	669.2	671.2	670.5	671.2
27.5°	562.7	624.9	639.4	642.1	647.4	649.4	652.0	652.6	653.3	655.3	654.0
30°	531.7	599.1	620.9	623.5	632.1	633.5	630.8	632.1	635.5	636.8	638.1
32.5°	496.6	560.7	601.8	607.7	615.7	611.7	611.0	613.0	618.3	618.3	619.6
35°	449.0	531.0	583.9	589.2	595.1	590.5	593.2	593.8	597.1	599.1	598.4
37.5°	396.8	505.2	565.4	569.3	574.0	568.0	572.0	574.0	576.6	575.3	575.3
40°	350.4	464.9	543.6	546.2	550.2	545.6	549.5	550.9	552.2	550.9	550.2
42.5°	316.1	420.5	520.4	523.8	521.1	524.4	525.7	528.4	526.3	523.8	523.8
45°	289.6	408.7	495.3	499.2	495.3	500.6	502.6	502.6	496.6	495.3	494.6
47.5°	281.0	384.8	470.1	470.1	468.2	474.8	478.1	473.5	467.6	465.5	465.5
50°	280.4	358.4	435.8	433.1	442.4	450.3	447.1	442.4	437.8	430.5	430.5
52.5°	254.6	326.0	391.4	401.4	415.9	420.5	415.3	410.7	402.7	399.4	396.8
55°	236.0	292.3	351.1	370.9	386.2	392.1	382.2	377.5	365.7	363.7	362.4
57.5°	232.1	243.3	314.1	339.2	357.7	357.1	351.1	342.5	332.6	330.6	330.0
60°	213.0	175.9	274.4	304.2	323.3	321.3	316.1	308.1	298.9	297.6	296.3
62.5°	193.1	127.6	229.4	263.2	290.3	289.6	285.1	273.1	266.5	263.2	260.5
65°	164.0	107.1	163.4	218.9	257.9	259.2	249.3	240.7	233.4	229.4	228.8
67.5°	125.0	87.3	110.4	182.5	226.8	225.5	213.0	208.9	199.7	197.7	193.7
70°	92.6	58.2	76.7	148.1	196.4	193.1	183.2	178.6	170.0	165.4	162.7
72.5°	76.7	46.9	56.2	115.1	165.4	161.3	152.7	147.5	140.2	136.3	133.6
75°	62.1	49.6	43.0	85.3	134.2	131.6	123.6	118.3	112.4	107.1	107.8
77.5°	45.7	46.2	34.4	62.8	106.5	102.5	97.9	91.3	88.6	83.3	83.3
80°	34.4	36.4	25.8	43.0	76.7	76.7	72.8	68.1	63.5	60.8	60.8
82.5°	23.2	23.2	19.1	27.1	52.3	50.3	47.6	46.2	43.7	42.3	42.3
85°	10.6	13.2	11.9	16.6	28.4	29.8	29.8	28.4	27.8	26.4	27.1
87.5°	3.4	5.9	7.3	9.3	14.6	15.2	15.9	15.9	15.9	16.6	16.6
90°	4.1	7.4	10.6	11.4	18.0	26.8	31.2	27.7	20.8	15.6	15.6
92.5°	16.4	44.3	72.2	79.2	111.3	154.1	175.5	153.8	110.4	77.9	74.8
95°	39.3	90.4	141.5	154.2	273.8	433.2	513.0	457.8	347.4	264.5	255.2
97.5°	68.0	113.1	158.2	169.4	368.9	634.8	767.7	732.8	663.0	610.6	592.8
100°	90.2	131.0	171.9	182.1	403.5	698.6	846.1	848.7	853.7	857.5	836.2
102.5°	109.1	147.2	185.3	194.8	419.3	718.6	868.3	912.7	1001.7	1068.3	1050.1
105°	141.1	173.3	205.6	213.7	431.1	720.9	865.8	965.5	1164.9	1314.4	1304.7
107.5°	173.9	204.0	234.1	241.6	433.2	688.7	816.5	955.6	1233.8	1442.4	1444.8
110°	196.0	223.2	250.3	257.1	429.9	660.3	775.5	931.0	1242.0	1475.2	1485.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	217.8	243.6	269.5	276.0	430.1	635.5	738.2	897.4	1215.5	1454.3	1469.9
115°	250.5	274.4	298.3	304.3	434.0	607.1	693.6	846.9	1153.4	1383.4	1405.0
117.5°	283.0	304.7	326.4	331.8	442.1	589.2	662.8	801.1	1077.8	1285.3	1309.4
120°	301.8	322.2	342.6	347.8	448.6	583.2	650.5	776.9	1029.7	1219.3	1242.8
122.5°	320.4	341.0	361.6	366.7	458.1	580.1	641.0	754.8	982.5	1153.2	1176.3
125°	348.6	367.4	386.1	390.9	470.8	577.4	630.7	727.5	920.8	1065.9	1087.2
127.5°	371.5	390.5	409.5	414.2	483.5	575.9	622.2	705.2	871.2	995.8	1013.7
130°	383.8	404.3	424.7	429.8	492.8	576.9	618.9	692.9	840.7	951.5	968.1
132.5°	396.6	417.0	437.4	442.5	500.3	577.4	616.0	682.1	814.4	913.7	928.6
135°	415.5	434.0	452.7	457.3	508.6	576.9	611.1	666.5	777.3	860.4	873.2
137.5°	434.7	453.2	471.5	476.1	520.8	580.5	610.2	657.1	750.7	821.0	831.5
140°	450.7	467.7	484.6	488.9	528.4	581.0	607.4	647.8	728.8	789.5	799.3
142.5°	463.0	478.7	494.4	498.3	534.7	583.1	607.4	642.9	714.0	767.3	775.8
145°	481.9	495.6	509.2	512.6	542.9	583.2	603.3	632.4	690.5	734.1	740.5
147.5°	500.8	514.1	527.3	530.7	554.9	587.2	603.3	626.2	672.0	706.3	711.6
150°	513.0	525.0	537.1	540.1	561.2	589.3	603.3	622.7	661.2	690.2	694.4
152.5°	525.7	534.8	544.0	546.2	565.3	590.6	603.3	619.8	652.7	677.5	680.7
155°	544.7	551.4	558.2	559.9	574.3	593.7	603.3	616.4	642.7	662.3	664.5
157.5°	558.6	565.2	571.7	573.4	583.3	596.6	603.3	613.5	633.9	649.2	650.7
160°	568.0	573.2	578.2	579.5	587.5	598.0	603.3	612.1	629.6	642.7	643.6
162.5°	577.4	581.2	585.1	586.1	591.8	599.5	603.3	610.7	625.4	636.5	637.3
165°	587.7	591.1	594.6	595.4	598.1	601.6	603.3	608.7	619.2	627.1	628.0
167.5°	597.1	598.8	600.5	600.9	603.0	605.9	607.4	610.8	617.7	623.0	623.3
170°	603.3	604.9	606.6	607.0	607.1	607.3	607.4	610.8	617.7	623.0	623.0
172.5°	606.6	607.0	607.3	607.4	607.4	607.4	607.4	610.1	615.6	619.7	619.4
175°	611.1	611.1	611.1	611.1	609.8	608.2	607.4	609.2	612.6	615.2	615.2
177.5°	611.1	611.1	611.1	611.1	610.1	608.9	608.2	609.5	612.3	614.4	614.0
180°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	716.8	714.8	716.8	715.4	716.1	714.2	708.2	706.3	708.2	710.2	710.2
5°	725.4	724.1	725.4	725.4	724.7	723.4	716.8	715.4	716.8	717.5	716.1
7.5°	728.1	726.1	728.1	726.7	726.7	725.4	718.8	717.5	718.1	720.1	718.1
10°	728.1	726.1	728.1	727.4	726.7	725.4	718.8	716.1	716.1	718.1	716.1
12.5°	724.7	723.4	724.7	723.4	723.4	722.1	715.4	712.9	713.5	714.2	711.5
15°	719.5	717.5	719.5	718.1	718.8	716.8	709.5	706.9	706.9	708.2	703.6
17.5°	711.5	708.8	711.5	710.9	710.2	708.8	702.2	699.7	699.0	699.7	696.3
20°	702.2	700.3	702.2	701.6	701.6	699.0	692.4	689.0	689.0	689.0	685.8
22.5°	687.7	685.8	687.7	689.0	689.0	688.3	682.4	677.8	676.5	676.5	672.6
25°	671.2	669.2	671.2	671.2	670.5	671.2	669.2	666.5	664.6	662.6	658.6
27.5°	655.3	654.0	655.3	654.0	655.3	653.3	652.6	652.0	649.4	647.4	642.1
30°	639.4	638.1	639.4	638.1	636.8	635.5	632.1	630.8	633.5	632.1	623.5
32.5°	619.6	618.3	619.6	619.6	618.3	618.3	613.0	611.0	611.7	615.7	607.7
35°	599.1	597.1	599.1	598.4	599.1	597.1	593.8	593.2	590.5	595.1	589.2
37.5°	575.3	573.4	575.3	575.3	575.3	576.6	574.0	572.0	568.0	574.0	569.3
40°	550.9	548.2	550.9	550.2	550.9	552.2	550.9	549.5	545.6	550.2	546.2
42.5°	523.1	522.4	523.1	523.8	523.8	526.3	528.4	525.7	524.4	521.1	523.8
45°	493.3	492.0	493.3	494.6	495.3	496.6	502.6	502.6	500.6	495.3	499.2
47.5°	461.5	458.3	461.5	465.5	465.5	467.6	473.5	478.1	474.8	468.2	470.1
50°	427.8	428.5	427.8	430.5	430.5	437.8	442.4	447.1	450.3	442.4	433.1
52.5°	394.8	394.1	394.8	396.8	399.4	402.7	410.7	415.3	420.5	415.9	401.4
55°	361.7	363.0	361.7	362.4	363.7	365.7	377.5	382.2	392.1	386.2	370.9
57.5°	328.6	326.7	328.6	330.0	330.6	332.6	342.5	351.1	357.1	357.7	339.2
60°	290.3	287.6	290.3	296.3	297.6	298.9	308.1	316.1	321.3	323.3	304.2
62.5°	256.6	251.9	256.6	260.5	263.2	266.5	273.1	285.1	289.6	290.3	263.2
65°	220.9	218.9	220.9	228.8	229.4	233.4	240.7	249.3	259.2	257.9	218.9
67.5°	188.4	188.4	188.4	193.7	197.7	199.7	208.9	213.0	225.5	226.8	182.5
70°	158.7	158.1	158.7	162.7	165.4	170.0	178.6	183.2	193.1	196.4	148.1
72.5°	130.3	129.6	130.3	133.6	136.3	140.2	147.5	152.7	161.3	165.4	115.1
75°	105.1	103.8	105.1	107.8	107.1	112.4	118.3	123.6	131.6	134.2	85.3
77.5°	80.7	80.7	80.7	83.3	83.3	88.6	91.3	97.9	102.5	106.5	62.8
80°	60.1	59.6	60.1	60.8	60.8	63.5	68.1	72.8	76.7	76.7	43.0
82.5°	42.3	41.0	42.3	42.3	42.3	43.7	46.2	47.6	50.3	52.3	27.1
85°	26.4	26.4	26.4	27.1	26.4	27.8	28.4	29.8	29.8	28.4	16.6
87.5°	17.2	16.6	17.2	16.6	16.6	15.9	15.9	15.9	15.2	14.6	9.3
90°	15.6	15.6	15.6	15.6	15.6	20.8	27.7	31.2	26.8	18.0	11.4
92.5°	62.4	50.0	62.4	74.8	77.9	110.4	153.8	175.5	154.1	111.3	79.2
95°	217.6	180.0	217.6	255.2	264.5	347.4	457.8	513.0	433.2	273.8	154.2
97.5°	521.3	449.9	521.3	592.8	610.6	663.0	732.8	767.7	634.8	368.9	169.4
100°	751.1	666.0	751.1	836.2	857.5	853.7	848.7	846.1	698.6	403.5	182.1
102.5°	977.2	904.4	977.2	1050.1	1068.3	1001.7	912.7	868.3	718.6	419.3	194.8
105°	1265.4	1226.3	1265.4	1304.7	1314.4	1164.9	965.5	865.8	720.9	431.1	213.7
107.5°	1454.3	1463.7	1454.3	1444.8	1442.4	1233.8	955.6	816.5	688.7	433.2	241.6
110°	1526.2	1567.0	1526.2	1485.4	1475.2	1242.0	931.0	775.5	660.3	429.9	257.1





TEST NUMBER: P935083

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1532.6	1595.3	1532.6	1469.9	1454.3	1215.5	897.4	738.2	635.5	430.1	276.0
115°	1492.0	1579.0	1492.0	1405.0	1383.4	1153.4	846.9	693.6	607.1	434.0	304.3
117.5°	1405.8	1502.3	1405.8	1309.4	1285.3	1077.8	801.1	662.8	589.2	442.1	331.8
120°	1336.4	1430.1	1336.4	1242.8	1219.3	1029.7	776.9	650.5	583.2	448.6	347.8
122.5°	1268.8	1361.2	1268.8	1176.3	1153.2	982.5	754.8	641.0	580.1	458.1	366.7
125°	1172.3	1257.4	1172.3	1087.2	1065.9	920.8	727.5	630.7	577.4	470.8	390.9
127.5°	1085.6	1157.4	1085.6	1013.7	995.8	871.2	705.2	622.2	575.9	483.5	414.2
130°	1034.4	1100.8	1034.4	968.1	951.5	840.7	692.9	618.9	576.9	492.8	429.8
132.5°	988.0	1047.4	988.0	928.6	913.7	814.4	682.1	616.0	577.4	500.3	442.5
135°	924.4	975.6	924.4	873.2	860.4	777.3	666.5	611.1	576.9	508.6	457.3
137.5°	873.5	915.4	873.5	831.5	821.0	750.7	657.1	610.2	580.5	520.8	476.1
140°	838.5	877.6	838.5	799.3	789.5	728.8	647.8	607.4	581.0	528.4	488.9
142.5°	809.5	843.2	809.5	775.8	767.3	714.0	642.9	607.4	583.1	534.7	498.3
145°	766.0	791.6	766.0	740.5	734.1	690.5	632.4	603.3	583.2	542.9	512.6
147.5°	732.7	753.8	732.7	711.6	706.3	672.0	626.2	603.3	587.2	554.9	530.7
150°	711.6	728.8	711.6	694.4	690.2	661.2	622.7	603.3	589.3	561.2	540.1
152.5°	693.7	706.7	693.7	680.7	677.5	652.7	619.8	603.3	590.6	565.3	546.2
155°	673.0	681.6	673.0	664.5	662.3	642.7	616.4	603.3	593.7	574.3	559.9
157.5°	656.8	662.8	656.8	650.7	649.2	633.9	613.5	603.3	596.6	583.3	573.4
160°	647.0	650.5	647.0	643.6	642.7	629.6	612.1	603.3	598.0	587.5	579.5
162.5°	640.6	643.9	640.6	637.3	636.5	625.4	610.7	603.3	599.5	591.8	586.1
165°	631.4	634.9	631.4	628.0	627.1	619.2	608.7	603.3	601.6	598.1	595.4
167.5°	624.7	626.2	624.7	623.3	623.0	617.7	610.8	607.4	605.9	603.0	600.9
170°	623.0	623.0	623.0	623.0	623.0	617.7	610.8	607.4	607.3	607.1	607.0
172.5°	618.1	616.8	618.1	619.4	619.7	615.6	610.1	607.4	607.4	607.4	607.4
175°	615.2	615.2	615.2	615.2	615.2	612.6	609.2	607.4	608.2	609.8	611.1
177.5°	612.6	611.1	612.6	614.0	614.4	612.3	609.5	608.2	608.9	610.1	611.1
180°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1



TEST NUMBER: P935083

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	708.8	704.9	704.9	698.3	695.6	693.7	690.4	680.4	677.8	675.1	679.2
5°	714.8	707.6	702.2	690.4	680.4	676.5	663.9	640.1	624.2	612.3	605.7
7.5°	716.1	706.9	697.0	678.5	654.6	644.1	605.7	562.1	550.2	539.6	532.9
10°	714.8	704.2	690.4	662.6	606.4	587.9	549.5	521.1	513.8	511.8	513.8
12.5°	710.2	700.3	681.1	634.8	556.1	543.6	521.1	504.5	503.3	506.5	524.4
15°	702.2	693.0	670.5	597.8	528.4	519.1	503.3	497.2	504.5	527.7	581.2
17.5°	694.3	683.8	656.0	561.4	507.2	500.6	489.4	501.3	542.2	573.4	591.2
20°	683.8	671.2	639.4	535.0	492.0	486.0	480.8	534.3	565.4	576.6	586.6
22.5°	671.2	658.0	616.9	516.5	476.1	471.5	474.8	552.9	565.4	573.4	581.9
25°	654.6	643.4	590.5	501.9	463.5	458.3	470.8	550.9	558.1	560.0	577.3
27.5°	639.4	624.9	562.7	488.7	448.3	446.4	474.2	542.2	547.5	549.5	568.0
30°	620.9	599.1	531.7	474.8	432.5	431.8	474.8	531.7	530.4	535.6	554.1
32.5°	601.8	560.7	496.6	457.6	417.3	416.6	470.1	515.8	514.5	521.7	535.6
35°	583.9	531.0	449.0	437.8	398.0	398.7	458.9	497.2	497.9	504.5	513.1
37.5°	565.4	505.2	396.8	415.9	379.6	379.6	443.7	480.1	478.8	480.8	492.6
40°	543.6	464.9	350.4	387.5	362.4	360.4	425.2	461.5	456.9	456.3	472.8
42.5°	520.4	420.5	316.1	349.8	342.5	339.9	402.7	439.1	430.5	432.5	453.7
45°	495.3	408.7	289.6	295.6	322.0	320.1	378.2	413.3	407.3	412.6	434.4
47.5°	470.1	384.8	281.0	245.3	300.2	299.5	351.1	388.2	384.8	390.2	413.3
50°	435.8	358.4	280.4	210.3	275.8	278.3	318.8	363.7	363.7	368.4	392.8
52.5°	391.4	326.0	254.6	190.4	247.3	255.3	290.3	342.5	343.8	348.5	370.3
55°	351.1	292.3	236.0	175.2	213.6	230.8	262.5	320.7	323.3	327.9	347.9
57.5°	314.1	243.3	232.1	157.4	182.5	199.1	238.0	299.5	300.8	304.9	324.0
60°	274.4	175.9	213.0	138.2	155.4	167.9	215.5	274.4	279.0	281.7	298.3
62.5°	229.4	127.6	193.1	125.0	142.2	144.8	197.1	250.6	256.6	258.5	268.5
65°	163.4	107.1	164.0	113.8	128.3	129.0	177.2	226.2	231.4	234.8	242.1
67.5°	110.4	87.3	125.0	103.1	117.7	118.3	158.1	197.7	205.0	207.7	212.3
70°	76.7	58.2	92.6	91.9	105.8	107.1	137.5	172.0	178.6	180.5	183.2
72.5°	56.2	46.9	76.7	82.6	93.3	94.6	116.3	142.9	149.5	151.4	152.7
75°	43.0	49.6	62.1	72.1	79.4	80.0	95.2	116.3	121.0	122.4	123.0
77.5°	34.4	46.2	45.7	58.2	64.8	63.5	74.7	89.9	93.9	93.9	93.9
80°	25.8	36.4	34.4	41.7	47.6	46.2	53.5	64.2	65.5	66.8	66.2
82.5°	19.1	23.2	23.2	26.4	31.7	30.5	35.7	41.7	41.7	41.7	43.0
85°	11.9	13.2	10.6	13.9	17.8	17.2	19.8	22.5	23.2	23.2	21.8
87.5°	7.3	5.9	3.4	5.3	7.9	7.9	9.3	10.0	9.3	9.3	9.3
90°	10.6	7.4	4.1	7.4	10.6	11.4	18.0	26.8	31.2	27.7	20.8
92.5°	72.2	44.3	16.4	44.3	72.2	79.2	111.3	154.1	175.5	153.8	110.4
95°	141.5	90.4	39.3	90.4	141.5	154.2	273.8	433.2	513.0	457.8	347.4
97.5°	158.2	113.1	68.0	113.1	158.2	169.4	368.9	634.8	767.7	732.8	663.0
100°	171.9	131.0	90.2	131.0	171.9	182.1	403.5	698.6	846.1	848.7	853.7
102.5°	185.3	147.2	109.1	147.2	185.3	194.8	419.3	718.6	868.3	912.7	1001.7
105°	205.6	173.3	141.1	173.3	205.6	213.7	431.1	720.9	865.8	965.5	1164.9
107.5°	234.1	204.0	173.9	204.0	234.1	241.6	433.2	688.7	816.5	955.6	1233.8
110°	250.3	223.2	196.0	223.2	250.3	257.1	429.9	660.3	775.5	931.0	1242.0



TEST NUMBER: P935083

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	269.5	243.6	217.8	243.6	269.5	276.0	430.1	635.5	738.2	897.4	1215.5
115°	298.3	274.4	250.5	274.4	298.3	304.3	434.0	607.1	693.6	846.9	1153.4
117.5°	326.4	304.7	283.0	304.7	326.4	331.8	442.1	589.2	662.8	801.1	1077.8
120°	342.6	322.2	301.8	322.2	342.6	347.8	448.6	583.2	650.5	776.9	1029.7
122.5°	361.6	341.0	320.4	341.0	361.6	366.7	458.1	580.1	641.0	754.8	982.5
125°	386.1	367.4	348.6	367.4	386.1	390.9	470.8	577.4	630.7	727.5	920.8
127.5°	409.5	390.5	371.5	390.5	409.5	414.2	483.5	575.9	622.2	705.2	871.2
130°	424.7	404.3	383.8	404.3	424.7	429.8	492.8	576.9	618.9	692.9	840.7
132.5°	437.4	417.0	396.6	417.0	437.4	442.5	500.3	577.4	616.0	682.1	814.4
135°	452.7	434.0	415.5	434.0	452.7	457.3	508.6	576.9	611.1	666.5	777.3
137.5°	471.5	453.2	434.7	453.2	471.5	476.1	520.8	580.5	610.2	657.1	750.7
140°	484.6	467.7	450.7	467.7	484.6	488.9	528.4	581.0	607.4	647.8	728.8
142.5°	494.4	478.7	463.0	478.7	494.4	498.3	534.7	583.1	607.4	642.9	714.0
145°	509.2	495.6	481.9	495.6	509.2	512.6	542.9	583.2	603.3	632.4	690.5
147.5°	527.3	514.1	500.8	514.1	527.3	530.7	554.9	587.2	603.3	626.2	672.0
150°	537.1	525.0	513.0	525.0	537.1	540.1	561.2	589.3	603.3	622.7	661.2
152.5°	544.0	534.8	525.7	534.8	544.0	546.2	565.3	590.6	603.3	619.8	652.7
155°	558.2	551.4	544.7	551.4	558.2	559.9	574.3	593.7	603.3	616.4	642.7
157.5°	571.7	565.2	558.6	565.2	571.7	573.4	583.3	596.6	603.3	613.5	633.9
160°	578.2	573.2	568.0	573.2	578.2	579.5	587.5	598.0	603.3	612.1	629.6
162.5°	585.1	581.2	577.4	581.2	585.1	586.1	591.8	599.5	603.3	610.7	625.4
165°	594.6	591.1	587.7	591.1	594.6	595.4	598.1	601.6	603.3	608.7	619.2
167.5°	600.5	598.8	597.1	598.8	600.5	600.9	603.0	605.9	607.4	610.8	617.7
170°	606.6	604.9	603.3	604.9	606.6	607.0	607.1	607.3	607.4	610.8	617.7
172.5°	607.3	607.0	606.6	607.0	607.3	607.4	607.4	607.4	607.4	610.1	615.6
175°	611.1	611.1	611.1	611.1	611.1	611.1	609.8	608.2	607.4	609.2	612.6
177.5°	611.1	611.1	611.1	611.1	611.1	611.1	610.1	608.9	608.2	609.5	612.3
180°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1



TEST NUMBER: P935083

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	674.5	672.6	675.1	667.9	675.1	672.6	674.5	679.2	675.1	677.8	680.4
5°	591.8	588.5	578.0	569.3	578.0	588.5	591.8	605.7	612.3	624.2	640.1
7.5°	529.0	526.3	523.8	518.4	523.8	526.3	529.0	532.9	539.6	550.2	562.1
10°	515.1	515.8	519.7	519.1	519.7	515.8	515.1	513.8	511.8	513.8	521.1
12.5°	550.9	556.8	578.6	577.3	578.6	556.8	550.9	524.4	506.5	503.3	504.5
15°	591.8	593.8	598.4	599.1	598.4	593.8	591.8	581.2	527.7	504.5	497.2
17.5°	595.8	596.4	599.8	599.8	599.8	596.4	595.8	591.2	573.4	542.2	501.3
20°	592.5	593.8	600.5	601.8	600.5	593.8	592.5	586.6	576.6	565.4	534.3
22.5°	591.2	593.8	599.1	598.4	599.1	593.8	591.2	581.9	573.4	565.4	552.9
25°	584.6	584.6	585.2	585.9	585.2	584.6	584.6	577.3	560.0	558.1	550.9
27.5°	570.7	572.0	575.9	575.3	575.9	572.0	570.7	568.0	549.5	547.5	542.2
30°	558.1	556.8	553.4	550.9	553.4	556.8	558.1	554.1	535.6	530.4	531.7
32.5°	537.0	533.6	530.4	528.4	530.4	533.6	537.0	535.6	521.7	514.5	515.8
35°	511.8	512.5	511.8	509.9	511.8	512.5	511.8	513.1	504.5	497.9	497.2
37.5°	494.0	495.3	494.6	492.0	494.6	495.3	494.0	492.6	480.8	478.8	480.1
40°	475.4	476.1	475.4	473.5	475.4	476.1	475.4	472.8	456.3	456.9	461.5
42.5°	457.6	456.9	454.9	453.7	454.9	456.9	457.6	453.7	432.5	430.5	439.1
45°	437.1	437.8	433.7	431.8	433.7	437.8	437.1	434.4	412.6	407.3	413.3
47.5°	416.6	416.6	413.3	411.3	413.3	416.6	416.6	413.3	390.2	384.8	388.2
50°	394.8	394.1	389.5	388.8	389.5	394.1	394.8	392.8	368.4	363.7	363.7
52.5°	369.7	369.7	370.3	371.6	370.3	369.7	369.7	370.3	348.5	343.8	342.5
55°	347.9	348.5	353.1	354.5	353.1	348.5	347.9	347.9	327.9	323.3	320.7
57.5°	325.4	325.4	328.6	328.6	328.6	325.4	325.4	324.0	304.9	300.8	299.5
60°	299.5	300.8	303.5	302.9	303.5	300.8	299.5	298.3	281.7	279.0	274.4
62.5°	272.4	273.8	274.4	273.1	274.4	273.8	272.4	268.5	258.5	256.6	250.6
65°	244.0	245.3	246.0	244.6	246.0	245.3	244.0	242.1	234.8	231.4	226.2
67.5°	214.9	214.3	213.6	216.2	213.6	214.3	214.9	212.3	207.7	205.0	197.7
70°	185.2	185.2	184.5	185.9	184.5	185.2	185.2	183.2	180.5	178.6	172.0
72.5°	153.4	152.7	155.4	153.4	155.4	152.7	153.4	152.7	151.4	149.5	142.9
75°	122.4	123.6	122.4	124.3	122.4	123.6	122.4	123.0	122.4	121.0	116.3
77.5°	93.3	94.6	93.3	93.3	93.3	94.6	93.3	93.9	93.9	93.9	89.9
80°	66.2	65.5	65.5	64.8	65.5	65.5	66.2	66.2	66.8	65.5	64.2
82.5°	42.3	41.7	41.7	43.0	41.7	41.7	42.3	43.0	41.7	41.7	41.7
85°	23.2	23.8	22.5	22.5	22.5	23.8	23.2	21.8	23.2	23.2	22.5
87.5°	8.6	7.9	7.9	7.9	7.9	7.9	8.6	9.3	9.3	9.3	10.0
90°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	20.8	27.7	31.2	26.8
92.5°	77.9	74.8	62.4	50.0	62.4	74.8	77.9	110.4	153.8	175.5	154.1
95°	264.5	255.2	217.6	180.0	217.6	255.2	264.5	347.4	457.8	513.0	433.2
97.5°	610.6	592.8	521.3	449.9	521.3	592.8	610.6	663.0	732.8	767.7	634.8
100°	857.5	836.2	751.1	666.0	751.1	836.2	857.5	853.7	848.7	846.1	698.6
102.5°	1068.3	1050.1	977.2	904.4	977.2	1050.1	1068.3	1001.7	912.7	868.3	718.6
105°	1314.4	1304.7	1265.4	1226.3	1265.4	1304.7	1314.4	1164.9	965.5	865.8	720.9
107.5°	1442.4	1444.8	1454.3	1463.7	1454.3	1444.8	1442.4	1233.8	955.6	816.5	688.7
110°	1475.2	1485.4	1526.2	1567.0	1526.2	1485.4	1475.2	1242.0	931.0	775.5	660.3



TEST NUMBER: P935083

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1454.3	1469.9	1532.6	1595.3	1532.6	1469.9	1454.3	1215.5	897.4	738.2	635.5
115°	1383.4	1405.0	1492.0	1579.0	1492.0	1405.0	1383.4	1153.4	846.9	693.6	607.1
117.5°	1285.3	1309.4	1405.8	1502.3	1405.8	1309.4	1285.3	1077.8	801.1	662.8	589.2
120°	1219.3	1242.8	1336.4	1430.1	1336.4	1242.8	1219.3	1029.7	776.9	650.5	583.2
122.5°	1153.2	1176.3	1268.8	1361.2	1268.8	1176.3	1153.2	982.5	754.8	641.0	580.1
125°	1065.9	1087.2	1172.3	1257.4	1172.3	1087.2	1065.9	920.8	727.5	630.7	577.4
127.5°	995.8	1013.7	1085.6	1157.4	1085.6	1013.7	995.8	871.2	705.2	622.2	575.9
130°	951.5	968.1	1034.4	1100.8	1034.4	968.1	951.5	840.7	692.9	618.9	576.9
132.5°	913.7	928.6	988.0	1047.4	988.0	928.6	913.7	814.4	682.1	616.0	577.4
135°	860.4	873.2	924.4	975.6	924.4	873.2	860.4	777.3	666.5	611.1	576.9
137.5°	821.0	831.5	873.5	915.4	873.5	831.5	821.0	750.7	657.1	610.2	580.5
140°	789.5	799.3	838.5	877.6	838.5	799.3	789.5	728.8	647.8	607.4	581.0
142.5°	767.3	775.8	809.5	843.2	809.5	775.8	767.3	714.0	642.9	607.4	583.1
145°	734.1	740.5	766.0	791.6	766.0	740.5	734.1	690.5	632.4	603.3	583.2
147.5°	706.3	711.6	732.7	753.8	732.7	711.6	706.3	672.0	626.2	603.3	587.2
150°	690.2	694.4	711.6	728.8	711.6	694.4	690.2	661.2	622.7	603.3	589.3
152.5°	677.5	680.7	693.7	706.7	693.7	680.7	677.5	652.7	619.8	603.3	590.6
155°	662.3	664.5	673.0	681.6	673.0	664.5	662.3	642.7	616.4	603.3	593.7
157.5°	649.2	650.7	656.8	662.8	656.8	650.7	649.2	633.9	613.5	603.3	596.6
160°	642.7	643.6	647.0	650.5	647.0	643.6	642.7	629.6	612.1	603.3	598.0
162.5°	636.5	637.3	640.6	643.9	640.6	637.3	636.5	625.4	610.7	603.3	599.5
165°	627.1	628.0	631.4	634.9	631.4	628.0	627.1	619.2	608.7	603.3	601.6
167.5°	623.0	623.3	624.7	626.2	624.7	623.3	623.0	617.7	610.8	607.4	605.9
170°	623.0	623.0	623.0	623.0	623.0	623.0	623.0	617.7	610.8	607.4	607.3
172.5°	619.7	619.4	618.1	616.8	618.1	619.4	619.7	615.6	610.1	607.4	607.4
175°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	612.6	609.2	607.4	608.2
177.5°	614.4	614.0	612.6	611.1	612.6	614.0	614.4	612.3	609.5	608.2	608.9
180°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1



TEST NUMBER: P935083

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	699.0	699.0	699.0	699.0	699.0
2.5°	690.4	693.7	695.6	698.3	704.9
5°	663.9	676.5	680.4	690.4	702.2
7.5°	605.7	644.1	654.6	678.5	697.0
10°	549.5	587.9	606.4	662.6	690.4
12.5°	521.1	543.6	556.1	634.8	681.1
15°	503.3	519.1	528.4	597.8	670.5
17.5°	489.4	500.6	507.2	561.4	656.0
20°	480.8	486.0	492.0	535.0	639.4
22.5°	474.8	471.5	476.1	516.5	616.9
25°	470.8	458.3	463.5	501.9	590.5
27.5°	474.2	446.4	448.3	488.7	562.7
30°	474.8	431.8	432.5	474.8	531.7
32.5°	470.1	416.6	417.3	457.6	496.6
35°	458.9	398.7	398.0	437.8	449.0
37.5°	443.7	379.6	379.6	415.9	396.8
40°	425.2	360.4	362.4	387.5	350.4
42.5°	402.7	339.9	342.5	349.8	316.1
45°	378.2	320.1	322.0	295.6	289.6
47.5°	351.1	299.5	300.2	245.3	281.0
50°	318.8	278.3	275.8	210.3	280.4
52.5°	290.3	255.3	247.3	190.4	254.6
55°	262.5	230.8	213.6	175.2	236.0
57.5°	238.0	199.1	182.5	157.4	232.1
60°	215.5	167.9	155.4	138.2	213.0
62.5°	197.1	144.8	142.2	125.0	193.1
65°	177.2	129.0	128.3	113.8	164.0
67.5°	158.1	118.3	117.7	103.1	125.0
70°	137.5	107.1	105.8	91.9	92.6
72.5°	116.3	94.6	93.3	82.6	76.7
75°	95.2	80.0	79.4	72.1	62.1
77.5°	74.7	63.5	64.8	58.2	45.7
80°	53.5	46.2	47.6	41.7	34.4
82.5°	35.7	30.5	31.7	26.4	23.2
85°	19.8	17.2	17.8	13.9	10.6
87.5°	9.3	7.9	7.9	5.3	3.4
90°	18.0	11.4	10.6	7.4	4.1
92.5°	111.3	79.2	72.2	44.3	16.4
95°	273.8	154.2	141.5	90.4	39.3
97.5°	368.9	169.4	158.2	113.1	68.0
100°	403.5	182.1	171.9	131.0	90.2
102.5°	419.3	194.8	185.3	147.2	109.1
105°	431.1	213.7	205.6	173.3	141.1
107.5°	433.2	241.6	234.1	204.0	173.9
110°	429.9	257.1	250.3	223.2	196.0



TEST NUMBER: P935083

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	430.1	276.0	269.5	243.6	217.8
115°	434.0	304.3	298.3	274.4	250.5
117.5°	442.1	331.8	326.4	304.7	283.0
120°	448.6	347.8	342.6	322.2	301.8
122.5°	458.1	366.7	361.6	341.0	320.4
125°	470.8	390.9	386.1	367.4	348.6
127.5°	483.5	414.2	409.5	390.5	371.5
130°	492.8	429.8	424.7	404.3	383.8
132.5°	500.3	442.5	437.4	417.0	396.6
135°	508.6	457.3	452.7	434.0	415.5
137.5°	520.8	476.1	471.5	453.2	434.7
140°	528.4	488.9	484.6	467.7	450.7
142.5°	534.7	498.3	494.4	478.7	463.0
145°	542.9	512.6	509.2	495.6	481.9
147.5°	554.9	530.7	527.3	514.1	500.8
150°	561.2	540.1	537.1	525.0	513.0
152.5°	565.3	546.2	544.0	534.8	525.7
155°	574.3	559.9	558.2	551.4	544.7
157.5°	583.3	573.4	571.7	565.2	558.6
160°	587.5	579.5	578.2	573.2	568.0
162.5°	591.8	586.1	585.1	581.2	577.4
165°	598.1	595.4	594.6	591.1	587.7
167.5°	603.0	600.9	600.5	598.8	597.1
170°	607.1	607.0	606.6	604.9	603.3
172.5°	607.4	607.4	607.3	607.0	606.6
175°	609.8	611.1	611.1	611.1	611.1
177.5°	610.1	611.1	611.1	611.1	611.1
180°	611.1	611.1	611.1	611.1	611.1



TEST NUMBER: P935083  
 CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-3000K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.26	9.98	10.37	11.08	12.59	12.06	12.78	13.16	13.88	15.39
	3H	9.73	10.37	10.84	11.48	13.01	13.39	14.03	14.50	15.13	16.67
	4H	9.91	10.52	11.04	11.63	13.17	13.82	14.43	14.94	15.53	17.07
	6H	10.03	10.59	11.16	11.70	13.25	14.09	14.65	15.22	15.76	17.31
	8H	10.02	10.56	11.16	11.68	13.22	14.15	14.69	15.29	15.81	17.35
	12H	9.99	10.50	11.13	11.62	13.18	14.18	14.69	15.32	15.81	17.37
4H	2H	10.27	10.88	11.40	11.99	13.52	12.46	13.06	13.58	14.17	15.71
	3H	11.28	11.79	12.42	12.93	14.47	13.94	14.44	15.07	15.58	17.13
	4H	11.55	12.02	12.69	13.14	14.71	14.45	14.92	15.59	16.04	17.61
	6H	11.67	12.07	12.82	13.22	14.78	14.80	15.20	15.95	16.35	17.91
	8H	11.67	12.05	12.82	13.18	14.76	14.90	15.27	16.04	16.41	17.99
	12H	11.63	11.97	12.79	13.12	14.70	14.94	15.28	16.10	16.43	18.01
8H	4H	11.99	12.36	13.13	13.50	15.08	14.57	14.94	15.71	16.08	17.65
	6H	12.25	12.55	13.41	13.73	15.31	14.99	15.30	16.15	16.48	18.05
	8H	12.29	12.56	13.46	13.72	15.31	15.13	15.40	16.30	16.56	18.16
	12H	12.27	12.50	13.44	13.66	15.29	15.22	15.46	16.39	16.61	18.24
12H	4H	11.99	12.33	13.15	13.48	15.06	14.52	14.86	15.68	16.01	17.59
	6H	12.30	12.57	13.47	13.73	15.33	14.98	15.25	16.15	16.41	18.01
	8H	12.36	12.60	13.54	13.76	15.38	15.13	15.37	16.31	16.53	18.15